

DERWENT-ACC-NO: 2002-261750

DERWENT-WEEK: 200272

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TITLE: Polyisocyanato curatives, used for laminate adhesives, comprise a silane coupling agent and an isocyanurate group-terminated prepolymer bearing both an isocyanurato and urethane groups

PATENT-ASSIGNEE: NIPPON POLYURETHANE KOGYO KK[NIPO]

PRIORITY-DATA: 2000JP-0073707 (March 16, 2000)

PATENT-FAMILY:

PUB-NO	MAIN-IPC	PUB-DATE	LANGUAGE	
PAGES				
JP 2001262114 A	C09J 175/04	September 26, 2001	N/A	016

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP2001262114A	N/A	2000JP-0073707
March 16, 2000		

INT-CL (IPC): C08G018/10, C09J175/04

ABSTRACTED-PUB-NO: JP2001262114A

BASIC-ABSTRACT:

NOVELTY - Polyisocyanato curative, for laminate adhesives, comprises (A) a silane coupling agent and (B) an isocyanaurate group-terminated prepolymer bearing both an isocyanurato and urethane groups obtained from (b1) an aromatic diisocyanate and (b2) a diol compound with a number average molecular weight of 100-2000.

DETAILED DESCRIPTION - Polyisocyanato curative, for laminate adhesives, comprises (A) a silane coupling agent of formula (I) and (B) an isocyanaurate group-terminated prepolymer bearing both an isocyanurate and urethane groups obtained from (b1) an aromatic diisocyanate and (b2) a diol compound with a number average molecular weight ( $M_n$ ) of 100- 2000.

*anastinute*

R = methyl or ethyl; and

m = 1-5.

USE - The polyisocyanato curatives are useful for laminate adhesives, tow pack type adhesives, paints, magnetic recording media, coatings, primers, printing inks and sealing materials.

ADVANTAGE - The polyisocyanato curatives have shortened aging time without shortening of the pot life and much improved laminate film production efficiency and can give laminate adhesives with excellent adhesion properties and excellent high retort resistance capable of shortening the aging time without shortening of the pot life.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CURE LAMINATE ADHESIVE COMPRISE SILANE COUPLE AGENT ISOCYANURATE

GROUP TERMINATE PREPOLYMER BEARING URETHANE GROUP

DERWENT-CLASS: A25 A81 A82 A85 G02 G03 L03

CPI-CODES: A05-G01E; A08-M01D; A12-A05F; G02-A02H; G02-A04A; G02-A05B1; G02-A05E; G03-B02E4; G04-B02; L03-B05;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; G1854\*R G1843 D01 F73 D18\*R ; P1592\*R F77 D01 ; H0011\*R ; M9999 M2153\*R ; M9999 M2084 ; P1558 P1536 D01 D23 D22 D45 F19 O\* 6A ; H0259

Polymer Index [1.2]

018 ; R00370 G1558 D01 D11 D10 D23 D22 D31 D42 D50 D73 D83 F47 ; R00137 G1025 G0997 D01 D11 D10 D50 D83 F28 F26 ; R20015 G1887 G1854 G1843 D01 D11 D10 D19 D18 D32 D50 D76 D93 F73 ; P1058\*R P1592 P0964 H0260 F34 F77 H0044 H0011 D01 ; P0055 ; H0259 ; L9999 L2528 L2506 ; L9999 L2824 ; L9999 L2084 ; P1558 P1536 D01 D23 D22 D45 F19 O\* 6A ; M9999 M2153\*R ; L9999 L2664 L2506 ; M9999 M2073 ; H0011\*R

Polymer Index [1.3]

018 ; ND01 ; Q9999 Q6644\*R ; Q9999 Q7818\*R ; Q9999 Q7158\*R Q7114 ; Q9999 Q7114\*R ; Q9999 Q7192 Q7114 ; Q9999 Q8797 Q8775 ; Q9999 Q9007 ; Q9999 Q8877\*R Q8855 ; B9999 B5129 B4977 B4740 ; B9999 B3532 B3372 ; B9999 B5301 B5298 B5276 ; B9999 B4568\*R ; B9999 B4988\*R B4977 B4740 ; M9999 M2073

Polymer Index [1.4]

018 ; D01 D61\*R D20 D18 D32 D78 D50 F37 F35 Mg 2A D92 ; C999 C102 C000 ; C999 C306 ; C999 C339

Polymer Index [1.5]

018 ; H\* Si 4A F83 D11 D10 D50 D87 F73 F86 F87 ; A999 A033

Polymer Index [1.6]

018 ; R01135 D01 D11 D10 D50 D63 D84 F41 F89 ; A999 A475

SECONDARY-ACC-NO:  
CPI Secondary Accession Numbers: C2002-077696

04/08/2003, EAST Version: 1.03.0007

DERWENT-ACC-NO: 2002-713268

DERWENT-WEEK: 200277

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TITLE: Two-component coating composition for coating  
metal substrates, e.g. oil transmission pipeline,  
comprises silane adhesion promoters containing epoxy  
group(s) and alkoxysilane group(s)

INVENTOR: HERGENROTHER, P R; ROESLER, R R

PATENT-ASSIGNEE: HERGENROTHER P R[HERGI], ROESLER R R[ROESI], BAYER CORP[FARB]

PRIORITY-DATA: 2000US-0747057 *(December 22, 2000)* 102<sup>2</sup> *late*

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
WO 200251899 A2 C08G 018/00	July 4, 2002	E 017
US 20020119329 A1 B32B 009/04	August 29, 2002	N/A 000

DESIGNATED-STATES: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
WO 200251899A2 December 19, 2001	N/A	2001WO-US50442
US20020119329A1 December 22, 2000	N/A	2000US-0747057 <i>-mag. issue date</i>

INT-CL (IPC): B32B009/04, C08F008/00, C08G018/00

ABSTRACTED-PUB-NO: WO 200251899A

BASIC-ABSTRACT:

NOVELTY - A two-component coating composition comprises:

(a) a polyisocyanate component;

(b) an isocyanate-reactive component; and

(c) 0.1-1.8 wt.%, based on the weight of (a) and (b), silane adhesion promoters containing epoxy group(s) and alkoxy silane group(s).

USE - The invention is used for coating a metal substrate (claimed), e.g. wood, plastic, leather, paper, textiles, glass, ceramic, plaster, masonry, or concrete. It is also suitable for coating oil and gas transmission pipelines.

ADVANTAGE - The inventive composition has improved adhesion, especially wet adhesion.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: TWO COMPONENT COATING COMPOSITION COATING METAL SUBSTRATE OIL

TRANSMISSION PIPE COMPRISE SILANE ADHESIVE PROMOTE CONTAIN EPOXY GROUP GROUP

DERWENT-CLASS: A25 A82 E11 G02 P73

CPI-CODES: A05-G03; A08-M01D; A12-B04; A12-H02D; E05-E01; G02-A05;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

B614 B713 B720 B741 B831 F012 F100 H5 H581 H8  
M210 M211 M272 M283 M311 M313 M321 M332 M342 M361  
M373 M391 M411 M510 M520 M530 M540 M781 M904 M905  
Q130 Q140 Q332 R023 R043

Ring Index

00012 00012

Specific Compounds

05222K 05222U 08058K 08058U

Chemical Indexing M3 \*02\*

Fragmentation Code

B614 B713 B720 B831 F012 F100 H5 H581 H8 M210  
M212 M272 M283 M311 M313 M321 M332 M342 M361 M373  
M391 M411 M510 M521 M530 M540 M781 M904 M905 Q130  
Q140 Q332 R023 R043

Ring Index

00012

Specific Compounds

05221K 05221U

Chemical Indexing M3 \*03\*

Fragmentation Code

B614 B712 B720 B742 B831 F012 F100 H5 H581 H8  
M210 M211 M212 M250 M272 M281 M282 M311 M313 M321  
M332 M342 M361 M373 M391 M411 M510 M521 M530 M540  
M781 M904 M905 Q130 Q140 Q332 R023 R043

Ring Index

00012

Specfic Compounds  
09201K 09201U

Chemical Indexing M3 \*04\*

Fragmentation Code

B614 B711 B712 B713 B720 B741 B742 B743 B831 F012  
F100 H5 H581 H8 M210 M211 M212 M213 M214 M215  
M216 M220 M221 M222 M223 M224 M225 M226 M231 M232  
M233 M250 M272 M281 M282 M283 M311 M312 M313 M314  
M315 M316 M321 M322 M331 M332 M333 M340 M342 M361  
M373 M391 M411 M510 M521 M530 M540 M781 M904 M905  
Q130 Q140 Q332 R023 R043

Ring Index

00012

Markush Compounds  
200070-99601-K 200070-99601-U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1]

018 ; G1854\*R G1843 D01 F73 G1945\*R ; P0000 ; H0011\*R

Polymer Index [1.2]

018 ; G1854\*R G1843 D01 F73 G1945\*R ; G1025\*R G0997 D01 F28 F26  
G1070\*R F29 ; H0011\*R ; H0259 ; P1592\*R F77 D01 ; P1638 P1592 F77  
D01 ; P1058\*R P1592 P0964 H0260 F34 F77 H0044 H0011 D01 ; H0077  
H0044 H0011 ; P1036 P0964 F34 D01

Polymer Index [1.3]

018 ; ND01 ; ND04 ; Q9999 Q7114\*R ; Q9999 Q8731 Q8719 ; K9552 K9483  
; K9574 K9483 ; K9609 K9483 ; K9563 K9483 ; K9541 K9483 ; K9518  
K9483 ; K9529 K9483 ; K9494 K9483 ; K9994 K9483 ; K9676\*R ; K9687  
K9676 ; K9712 K9676 ; B9999 B5301 B5298 B5276 ; B9999 B4706\*R B4568

Polymer Index [1.4]

018 ; G2813\*R D01 D73 F47 Si 4A D11 D10 D23 D22 D31 D42 D50 F86  
F87 F34 ; A999 A033

Polymer Index [2.1]

018 ; R00735 G1887 G1854 G1843 D01 D11 D10 D19 D18 D32 D50 D76 D93  
F73 ; R20015 G1887 G1854 G1843 D01 D11 D10 D19 D18 D32 D50 D76 D93  
F73 ; R00908 G1036 G1025 G0997 D01 D11 D10 D50 D84 F28 F26 ; R00351  
G1558 D01 D23 D22 D31 D42 D50 D73 D82 F47 ; R00370 G1558 D01 D11  
D10 D23 D22 D31 D42 D50 D73 D83 F47 ; G1774 G1763 G1672 G1649 D01  
D19 D18 D76 F09 F07 D11 D10 D31 D50 D91 ; H0033 H0011 ; H0077 H0044  
H0011 ; P1592\*R F77 D01 ; P1638 P1592 F77 D01 ; P1058\*R P1592 P0964  
H0260 F34 F77 H0044 H0011 D01 ; P1649 P1592 F77 H0011 D01 ; H0259  
; L9999 L2528 L2506 ; L9999 L2391 ; L9999 L2073 ; M9999 M2073 ;  
L9999 L2824 ; L9999 L2028 ; P1036 P0964 F34 D01 ; P0055 ; M9999  
M2153\*R ; M9999 M2200 ; M9999 M2039 ; P1581 P1570 P1592 H0260 F77  
F78 D01

Polymer Index [2.2]

018 ; ND01 ; ND04 ; Q9999 Q7114\*R ; Q9999 Q8731 Q8719 ; K9552 K9483  
; K9574 K9483 ; K9609 K9483 ; K9563 K9483 ; K9541 K9483 ; K9518  
K9483 ; K9529 K9483 ; K9494 K9483 ; K9994 K9483 ; K9676\*R ; K9687  
K9676 ; K9712 K9676 ; B9999 B5301 B5298 B5276 ; B9999 B4706\*R B4568

Polymer Index [2.3]  
018 ; K9449

Polymer Index [2.4]  
018 ; R00113 G1070 G0997 D01 D11 D10 D50 D83 F29 F26 ; R00420 G1070  
G0997 D01 D11 D10 D50 D86 F29 F26 ; R00819 G1672 G1649 D01 D11 D16  
D50 D82 F09 F07 ; H0226

Polymer Index [2.5]  
018 ; R00415 D01 D11 D10 D50 D61 D68 D95 Sn 4A ; C999 C102 C000  
; C999 C306

Polymer Index [2.6]  
018 ; G2813\*R D01 D73 F47 Si 4A D11 D10 D23 D22 D31 D42 D50 F86  
F87 F34 ; R05222 G2813 D01 D11 D10 D23 D22 D31 D42 D50 D73 D89 F47  
F34 F86 F87 ; A999 A033

Polymer Index [2.7]  
018 ; G3190 R01541 D00 F80 O\* 6A Mg 2A Si 4A ; D00 F80 O\* 6A Si  
4A ; A999 A237 ; A999 A771

Polymer Index [2.8]  
018 ; R01966 D00 F20 Ti 4B Tr O\* 6A ; A999 A102 A077

Polymer Index [2.9]  
018 ; G2197 G2186 D01 ; A999 A384

Polymer Index [2.10]  
018 ; Si 4A ; A999 A691\*R

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2002-202125